

Linzer biol. Beitr.	48/2	1333-1338	19.12.2016
---------------------	------	-----------	------------

Pompilidae (Hymenoptera, Vespoidea) from Nosy Boraha (Madagascar)

Michael MADL

A b s t r a c t : The family Pompilidae is represented by 21 species of the subfamilies Pepsinae (12 species) and Pompilinae (9 species) including five undescribed species labelled by R. Wahis as paratypes on Nosy Boraha (Sainte Marie). New records of 18 species are communicated.

K e y w o r d s : Pepsinae, Pompilinae, new records, catalogue, Sainte Marie.

Introduction

Nosy Boraha or Sainte Marie is a volcanic island off the east coast of Madagascar north of Toamasina (16°54'S and 49°54' E). It covers an area of about 220 km² and the highest elevation is about 110 m.

Till now 68 species of the family Pompilidae (spider wasps) have been recorded from Madagascar representing the subfamilies Ceropalinae, Pepsinae and Pompilinae (Madl, unpublished catalogue). Only five species of the subfamily Pompilinae are known from Nosy Boraha (WAHIS 2000a, b).

In this paper 21 species of the subfamilies Pepsinae and Pompilinae are listed from Nosy Boraha, of which 12 species of Pepsinae and four species of Pompilinae are first records. R. Wahis has labelled specimens of five new species as paratypes, but the new species are not yet described (see below under the genera *Auplopus* SPINOLA, 1841 and *Poecilagenia* HAUPT, 1927).

The material is deposited in the Natural History Museum Vienna.

The distribution of the species in Madagascar is based on an unpublished catalogue of the Pompilidae of the Malagasy subregion compiled by the author.

Abbreviations

biol. biology
 descr. description
 fig (s) figure (s)
 tax. taxonomy

Annotated catalogue

Subfamily *P e p s i n a e*

Auplopus consobrinus (DE SAUSSURE, 1892)

M a t e r i a l e x a m i n e d : Forêt de Ambohidena 1♂ 12.06.1995 leg. M. Madl.

D i s t r i b u t i o n : Prov. Antananarivo: Andrangoloaka – Prov. Toamasina: Nosy Boraha (Sainte Marie).

Endemic. New to the fauna von Nosy Boraha.

Auplopus lycaste (BANKS, 1941)

M a t e r i a l e x a m i n e d : 3.8 km S La Crique, Fahrweg zur Küste 8♀ 19.-26.11.1994 leg. M. Madl.

D i s t r i b u t i o n : Prov. Mahajanga: Maromandia – Prov. Toamasina: Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Fianarantsoa.

Endemic. New to the fauna von Nosy Boraha.

Auplopus meona (BANKS, 1941)

M a t e r i a l e x a m i n e d : Forêt de Kalalao 1♂ 23.-26.10.1992 leg. M. Madl – Umgebung Fluss Manandriana 1♀ 07.-08.06.1995 leg. M. Madl.

D i s t r i b u t i o n : Prov. Toamasina: Moramanga, Nosy Boraha (Sainte Marie).

Endemic. New to the fauna von Nosy Boraha.

Auplopus pedunculatus (DE SAUSSURE, 1892)

M a t e r i a l e x a m i n e d : Umgebung Cocoteraie Robert 1♀ 15.-20.10.1992 leg. M. Madl – Forêt de Kalalao 1♀ 11.-25.11.1993 leg. M. Madl.

D i s t r i b u t i o n : Prov. Antananarivo: Antananarivo, Andrangoloaka – Prov. Toamasina: Fanovana, Nosy Boraha (Sainte Marie).

Endemic. New to the fauna von Nosy Boraha.

Auplopus pugnax (BANKS, 1941)

M a t e r i a l e x a m i n e d : Umgebung Fluss Manandriana 1♀ 03.-07.12. 1993, 1♂ 1♀ 02.-04.11.1997 leg. M. Madl.

D i s t r i b u t i o n : Prov. Toamasina: Moramanga, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Ambalavao.

Endemic. New to the fauna von Nosy Boraha.

Auplopus sp. 1

M a t e r i a l e x a m i n e d : Umgebung Bety Plage 1♂ 13.06.1995 leg. M. Madl.

The specimen has been labelled by R. Wahis as paratype of *Auplopus cavifrons* nov.sp. described not yet till present.

***Auplopus* sp. 2**

M a t e r i a l e x a m i n e d : Umgebung Fluss Manandriana 1 ♀ 14.-25.11.1994 leg. M. Madl.

The specimen has been labelled by R. Wahis as paratype of *Auplopus seyrigi* nov.sp. described not yet till present.

***Auplopus* sp. 3**

M a t e r i a l e x a m i n e d : Foret de Kalalao 1 ♀ 23.-26.10.1992 leg. M. Madl.

The specimen has been labelled by R. Wahis as paratype of *Auplopus tuberatus* nov.sp. described not yet till present.

***Auplopus* sp. 4**

M a t e r i a l e x a m i n e d : Umgebung Fluss Manandriana 1 ♀ 15.-26.11.1993 leg. M. Madl.

The specimen has been labelled by R. Wahis as paratype of *Auplopus xanthogrammus* nov.sp. described not yet till present.

***Diplonyx campanulatus* (DE SAUSSURE, 1892)**

M a t e r i a l e x a m i n e d : Umgebung Cocoteraie Robert 1 ♀ 15.-20.10.1992 leg. M. Madl – Ile aux Nattes 1 ♀ 27.11.1994 leg. M. Madl.

D i s t r i b u t i o n : Prov. Mahajanga: Maromandia – Prov. Antananarivo: Antananarivo – Prov. Toamasina: Fanovana, Mandritsara, Moramanga, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Ambalavao, Fianarantsoa.

Endemic. New to the fauna of Nosy Boraha.

***Minagenia minima* BANKS, 1941**

M a t e r i a l e x a m i n e d : Umgebung Fluss Manandriana 1 ♀ 15.-26.11.1993 leg. M. Madl.

D i s t r i b u t i o n : Prov. Fianarantsoa: Fianarantsoa – Prov. Toamasina: Nosy Boraha (Sainte Marie).

Endemic. New to the fauna of Nosy Boraha.

***Poecilogenia* sp.**

M a t e r i a l e x a m i n e d : 3.8 km S La Crique, Fahrweg zur Küste 2 ♀ ♀ 06.11.1997 leg. M. Madl.

The specimens have been labelled by R. Wahis as paratypes of *Poecilogenia bimaculosa* nov.sp. described not yet till present.

Subfamily P o m p i l i n a e***Anoplius lemur* (DE DALLA TORRE, 1897)**

M a t e r i a l e x a m i n e d : Umgebung Fluss Manandriana 1 ♀ 15.-26.11.1993 leg. M. Madl.

D i s t r i b u t i o n : Prov. Antananarivo: Antananarivo – Prov. Toamasina: Fanovana, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Ifanadiana.

Anoplius lemur is also known from the Afrotropical region. New to the fauna of Nosy Boraha.

***Aporinellus bidentulus* (DE DALLA TORRE, 1897)**

Aporinellus bidentulus (DE DALLA TORRE 1897): WAHIS 2000b: 47 (key, figs 2, 4), 50 (tax., Umgebung Cocoteraie Robert, Ambatorao - Phare Albrand, Umgebung Fluss Manandriana), 51 (map 2).

M a t e r i a l e x a m i n e d : 3.8 km S La Crique, Fahrweg zur Küste 1 ♂ 19.-26.11.1994 leg. M. Madl.

D i s t r i b u t i o n : Madagascar: Prov. Antsiranana: Nosy Komba – Prov. Mahajanga: Ambovory, Ampijoroa, Katsepy, 8 km NE Mahajanga (Manapatanana) – Prov. Antananarivo: Andrangoloaka, Antananarivo (Tsimbazaza) – Prov. Toamasina: Ambatondrazaka, Ambila-Lemaitso, 54 km N Ampasimanolotra (Brickaville), Analandraraka, Andasibe (Perinet), Andekaleka (Rogez), Fampanambo, Farafaty, Ivoloina, Mahavelona (Foulpointe), 25 km W Morarano-Chrome, Station Agricole Cala, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Ambalavao, Isalo National Park, Ranomafana National Park (Ranomafana) – Prov. Toliara: Antanimora, Bekily, Berenty Private Reserve, Beroboka, Ifaty, Miary, Morondava, 12 km SE Toliara.

Endemic.

***Episyron hirundo* (DE SAUSSURE, 1892)**

M a t e r i a l e x a m i n e d : Umgebung Cocoteraie Robert 1 ♀ 15.-20.10.1992 leg. M. Madl – 3 km S La Crique 2 ♀ ♀ 06.11.1997 leg. M. Madl – Foret de Kalalao 1 ♀ 11.-25.11.1993 leg. M. Madl.

D i s t r i b u t i o n : Prov. Antananarivo: Andrangoloaka – Prov. Toamasina: Nosy Boraha (Sainte Marie).

Endemic. New to the fauna of Nosy Boraha.

***Ferreola saussurei* (BANKS, 1941)**

Ferreola saussurei (BANKS 1941): WAHIS 2000b: 54 (key), 55 (figs 5, 8, 10, 12), 56 (figs 13, 18), 57 (key), 60 (tax., descr. ♂ ♀, biol., Nosy Boraha without locality), 62 (map 5).

D i s t r i b u t i o n : Prov. Mahajanga: Maevatanana (Foret d'Ambre) – Prov. Antananarivo: Ambohitantely – Prov. Toamasina: Andasibe (Perinet), Andekaleka (Rogez), Andriba, Anosibe, Fanovana, Manakambahiny Est, Moramanga, 25 km W Morarano-Chrome, Tampina, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Ihosy, 40 km W Ihosy, Isalo NP, Ranomafana National Park (7 km W Ranomafana) – Prov. Toliara: Antanandava (Station Agricole Bas Mangoky), Antanimora, Bekily, Bereboka, Berenty Private Reserve, Bevilany, Ifaty.

Endemic.

***Homonotus albistylus* (DE SAUSSURE, 1892)**

Homonotus albistylus (DE SAUSSURE 1892): WAHIS 2000b: 68 (key, fig. 21), 69 (tax., descr. ♂ ♀, biol., Umgebung Cocoteraie Robert, Foret de Kalalao), 72 (map 9).

D i s t r i b u t i o n : Prov. Antsiranana: Mailaka – Prov. Antananarivo: Ambatolampy, Ambohitantely, Antananarivo (Tsimbazaza), 25 km W Antananarivo (golf course), La Mandraka, Massif de l'Ankaratra – Prov. Toamasina: Andasibe (Perinet), Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Ranomafana National Park (Ranomafana) – Prov. Toliara: Behara, Bekily, Berenty Private Reserve, Ifaty, Tsivory.

Endemic.

***Homonotus albitarsis* WAHIS, 2000**

Homonotus albitarsis sp.n.: WAHIS 2000b: 68 (key, fig. 22), 70 (descr. ♂ ♀, Nosy Boraha without locality), 73 (map 10).

M a t e r i a l e x a m i n e d : Fluss Manandriana 1♀ 26.10.1996 leg. M. Madl.

D i s t r i b u t i o n : Prov. Antananarivo: Anosibe, Antsirabe – Prov. Toamasina: Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Ranomafana National Park (Ranomafana) – Prov. Toliara: Behara, Bekily, Berenty Private Reserve, Toliara.

Endemic. In 1997 this specimen has been labelled as paratype by R. Wahis. As the locality is not listed in the original description, the specimen does not belong to the type series.

***Paracyphononyx petiolaris* (DE SAUSSURE, 1892)**

M a t e r i a l e x a m i n e d : Forêt de Kalalao 1♂ 11.-25. 11.1993 leg. M. Madl.

D i s t r i b u t i o n : Prov. Antananarivo: Prov. Antsiranana: Nosy Be – Antananarivo – Prov. Toamasina: Fanovana, Moramanga, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Fianarantsoa.

Endemic.

***Pompilus cinereus* (FABRICIUS, 1775)**

M a t e r i a l e x a m i n e d : Umgebung Cocoteraie Robert 4♂♂ 4♀♀ 15.-20.10.1992 leg. M. Madl.

D i s t r i b u t i o n : Prov. Antsiranana: Vallée du Sambirano – Prov. Mahajanga: Maromandia – Prov. Toamasina: Andasibe (Perinet), Toamasina, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Fianarantsoa, Ifanadiana, Massif de l'Isalo – Prov. Toliara: Beraketa, Saint Augustin.

Pompilus cinereus is also known from the Afrotropical, Australian, Oriental and Palaearctic regions.

***Pygmachus prismaticus* (DE SAUSSURE, 1892)**

Pygmachus prismaticus (DE SAUSSURE 1892): WAHIS 2000a: 83 (key), 84 (tax., Nosy Boraha without locality, Umgebung Antanandava), 91 (figs 1-3), 93 (map 1).

D i s t r i b u t i o n : Prov. Antsiranana: Nosy Be – Prov. Antananarivo: Andrangoloaka, Antananarivo, 25 km W Antananarivo (golf course), Antsirabe – Prov. Toamasina: Analandrarak, Andekaleka (Rogez), Angavokely, Fampanambo, Fanovana, Manakambahiny Est, Manohilahy (25 km W Morarano-Chrome), Moramanga, Nosy Boraha (Sainte Marie) – Prov. Fianarantsoa: Fianarantsoa, Ranomafana National Park (Ranomafana) – Prov. Toliara: Bekily, Fort Dauphin, Ivondro (leg. Seyrig).

Endemic.

Acknowledgements

I am greatly indebted to Raymond Wahis (Université de Liège, Gembloux, Belgium) for the identification of the Pompilidae and for the correction of my catalogue of the Malagasy Pompilidae. Many thanks to Manuela Vizek (Naturhistorisches Museum Wien, Austria) for her support in this study.

Zusammenfassung

Die Familie Pompilidae ist auf Nosy Boraha (Sainte Marie) mit 21 Arten aus den Unterfamilien Pepsinae (12 Arten) und Pompilinae (9 Arten) vertreten. Die Funddaten von 18 Arten werden mitgeteilt. Angeführt sind auch die Paratypen von fünf neuen Arten, die von R. Wahis noch nicht beschrieben worden sind.

References

- WAHIS R. (2000a): Révision des espèces afrotropicales et orientale du genre *Pygmachus* HAUPT 1930 (Hymenoptera: Pompilidae, Pompilinae). — Notes Fauniques de Gembloux **37**: 81-94.
- WAHIS R. (2000b): Hyménoptères Pompilides de Madagascar 2. genres *Aporinellus* BANKS, *Ferreola* LEPELETIER et *Homonotus* DAHLBOM (Hymenoptera: Pompilidae). — Notes Fauniques de Gembloux **39**: 45-77.

Author's address: Michael MADL
2. Zoologische Abteilung
Naturhistorisches Museum
Burgring 7
A-1010 Wien, Austria
E-mail: michael.madl@nhm-wien.ac.at